ABSTRACT OF THE DISCLOSURE

A method for measuring a directional of a body in a three-dimensional space defined by an X-axis (magnetic north), a Y-axis, and a Z-axis is proposed.   An x-axis tilt angle, which is an angle

5   between a horizontal plane and an x-axis, which is the direction towards which the body points, and a y-axis tilt angle, which is an angle between a y-axis orthogonal to the x-axis and the horizontal plane, are detected.   The x-axis and the y-axis are converted so as to be in the horizontal plane using the x-axis tilt angle and the y-axis tilt angle.   A

10   primary azimuth between the X-axis and the x-axis converted is calculated.   An azimuth error angle included in the primary azimuth is extracted based on the x-axis tilt angle, the y-axis tilt angle, and the primary azimuth.